



Tri-Cities Airport Administrative Office

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Port Commissioners

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January 15, 2020

SUBJECT: Tri Cities Airport Building 85 Re-roof
BIDS DUE FEBRUARY 11, 2020 AT 10:00 AM

Dear Small Works Roster Roofing Contractor:

Please find enclosed the bidding documents for the Port of Pasco, Tri Cities Airport Building 85 Re-roof project. The project involves re-roofing approximately 16,350 sf of roof area. A new 60-mil TPO roof and insulation system is to be installed.

We would appreciate your bid proposal or a response indicating that you will not be submitting a bid.

If you have any questions, please feel free to contact me at (509) 547-3378.

Respectfully,

A handwritten signature in blue ink that reads 'Tracy Friesz'.

Tracy Friesz
Facilities Engineer

enclosure

Port of Pasco
INVITATION FOR BIDS
Small Works Roster

Notice to Contractors: The Port of Pasco requests your proposal to furnish labor, equipment, and material to accomplish the project: Tri Cities Airport Building 85 Re-roof.

- Instructions:** Please submit your proposal by mail or by hand not later than **10:00 AM. PST, February 11, 2020**. Bids shall be mailed, or delivered to the Facilities Engineer, Port of Pasco, 1110 Osprey Pointe Blvd, Suite 201, P.O. Box 769, Pasco, WA 99301. Questions may be directed to Tracy Friesz, Ph. 509.547.3378. Plans and specifications may be examined or obtained at the Port of Pasco Administrative office at the address listed above or at the Port's web site, www.portofpasco.org under "Business with the Port". Contractors must be on the Port's Small Works Roster to be eligible for bidding on this project. Small Works Roster applications are available on the Port's web site, www.portofpasco.org.
- Bid Opening:** Bids will immediately be publicly opened and read aloud on the submittal time and date listed above. Bids received after the time for opening cannot be considered.
- Bid Award:** Opened proposals will be submitted to the Board of Commissioners of the Port of Pasco at the next regular meeting. It is anticipated an award will be made within one week after the presentation to the Board of Commissioners. The work will be awarded to, and a contract negotiated with the lowest responsible bidder or the bid judged to be in the best interest of the Port of Pasco. The successful bidder shall have 10 days after receipt of the Notice of Award to execute the Agreement and furnish required bonds and proof of insurance.
- Start Date and Contract Time:** Work will begin within 10 days after the execution of the contract, and require completion not to exceed 30 calendar days.
- Pre-Bid Walk-Through:** A pre-bid meeting for the project will be held at the Project site at 3408 Swallow Ave, Pasco, WA 99301 on February 4, 2020, at 10:00 AM. A walk-through of the project site will be conducted at the pre-bid meeting.
- Bid Proposal Form:** Proposals shall be prepared on the standard proposal form attached. The proposal shall be placed in a sealed envelope marked in the lower left corner with "Proposal for Tri Cities Airport Building 85 Re-roof. Please place name of company on front of envelope as well.
- Bid Comparisons:** Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between figures and numbers written as words shall be resolved in favor of the numbers written as words.
- Bid Hold:** No Bid may be withdrawn for a period of four weeks after the bid date.
- Bid Guarantee:** A certified check, cashier's check or bid bond made payable to the Port of Pasco for an amount equal to at least 5% of the total base bid amount shall accompany each bid.

Performance & Payment Bond:

The Contractor shall furnish performance and payment bonds, each in an amount at least equal to the Contract Price, as required by R.C.W. 39.08, upon execution of a contract. These bonds shall remain in effect until one year after the date when final payment becomes due. In lieu of the said performance and payment bonds, and in the event the contract is for an amount less than \$150,000.00, the Contractor may elect to have the Port retain 10% of the contract amount for a period of forty five (45) days after the date of final acceptance, or until receipt of all necessary releases from the Department of Revenue, Department of Labor and Industries, and the settlement of liens filed under Chapter 60.28 R.C.W., whichever is later. Retained amounts will be held by the Port unless Contractor submits a written request to invest the deposit retainage in accordance with applicable law.

Agreement:

Successful bidder will execute the attached Agreement between the Port of Pasco and the Contractor.

Right of the Port to Accept or Reject Bids:

The Port of Pasco reserves the right to reject any or all bids, to waive any informalities or irregularities in any bid, or in the bidding, and to accept or reject any bid for reasons based solely on considerations for the best interests of the Port of Pasco.

GENERAL CONDITIONS:

Insurance:

The Contractor shall purchase and maintain such insurance as will protect it from claims arising out of Contractor's operations under the contract, whether such operations be by itself or by any subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable (per Title 48 of the R.C.W.). Said insurance shall include provisions applying to:

- A. Claims under workman's compensation, disability benefit and other similar employee benefit acts;
- B. Claims for damages because of bodily injury, occupational sickness or disease, or death of its employees, and claims insured by usual personal injury liability coverage;
- C. Claims for damages because of bodily injury, sickness or disease, or death of person other than its employees, and claims insured by usual personal injury liability coverage; and
- D. Claims for damages because of injury to or destruction of tangible property, including loss of use resulting there from.

The insurance required by this paragraph shall be written for not less than:

- Commercial General Liability and Contractual Liability Insurance; written on an Occurrence form, and include Premises and Products/Completed Operations; Employers Liability.

Combined Single Limit per Occurrence	\$1,000,000
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General Aggregate	\$2,000,000
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- Commercial Auto Liability; including all Owned, Non-Owned, and Hired Autos:

Combined Single Limit per Occurrence	\$1,000,000 each Accident including Bodily Injury and Property Damage Liability
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- Workers Compensation Statutory Requirements
- Excess/Umbrella \$1,000,000 Each Occurrence

All such insurance policies shall be issued by a reputable insurance company satisfactory to Port; authorized to do business in the State of Washington and rated A- or better by A. M. Best Company. The insurance company and its agent shall be licensed with the State of Washington Insurance Commissioner per Title 48 of the RCW of Washington.

The policy of Commercial General Liability shall 1) name the Port as an Additional Insured for both “ongoing” and “completed operations”, and shall include coverage for the Port’s officers, directors, partners, employees, agents, and consultants and 2) be primary coverage for both Defense and Indemnity and Non-Contributory with any insurance maintained by Port, and shall provide for a Waiver of Subrogation rights as to the Port.

Evidence of Insurance shall be filed with the Port prior to the execution of the Agreement, which documents that policies providing such coverage and limits of insurance are in full force and effect in a form acceptable to the Port. Attach appropriate endorsement forms evidencing required additional insured parties. Thirty (30) days advance notice shall be given in writing to the PORT prior to cancellation, termination or alteration of said policies of insurance. The insurance company and its agent shall be licensed with the State of Washington Insurance Commissioner per Title 48 of the RCW of Washington.

Warranty: Standard one year Contractors Guarantee covering the work performed and Manufacturers’ Warranty on material, and warranties as otherwise listed in these specifications. Copies of all such warranties to be furnished to the Port of Pasco.

Cancellation of Contract for Violation of Port Policy: This contract pursuant to R.C.W. 49.28.050 and 49.28.060 may be cancelled by the officers or agents of the Port authorized to contract for or supervise the execution of such work, in case such work is not performed in accordance with the policy of the Port relating to such work

Prevailing Wage: The hourly wages paid to laborers, workmen or mechanics shall not be less than the prevailing rate of wage, R.C.W. 39.12.020.No worker may be paid less than the specified hourly rate. Contractor will submit Intent to Pay Prevailing Wages, Affidavit of Wages Paid, and Request for Release to the Department of Labor and Industries at appropriate times.

The Washington State Prevailing Wage Rates for Public Works Contracts, Franklin County, effective February 11, 2020, is a part of this Invitation and may be accessed from the following website:
<http://www.lni.wa.gov/TradesLicensing/PrevWage/WageRates/default.asp>. A copy is also available for viewing at the Port of Pasco office, 1110 Osprey Pointe Blvd, Suite 201, Pasco, WA 99301, and can be mailed upon request.

Retainage: Retainage of 5% will be administered in accordance with R.C.W. 60.28 when contractor elects to furnish a performance and payment bond for the project when all requirements are met. If contractor elects not to furnish a performance and payment bond on the project of \$150,000 or less, retainage of 10% will be withheld until requirements of R.C.W. 60.28 are met.

**Bidder
Responsibility
Criteria**

It is the intent of Owner to award a contract to the lowest, responsible bidder. In accordance with RCW 39.04.350, before award of a public works contract, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder and qualified to be awarded a public works project. The bidder may be required by the Owner to submit documentation demonstrating compliance with the criteria. The bidder must:

- A. Have a current certificate of registration as a contractor at the time of bid submittal, in compliance with chapter 18.27 RCW. In addition, per RCW 39.06.010 (1), all electrical and elevator contractors must also be licensed, which must have been in effect at the time of bid submittal;
- B. Have a current Washington Unified Business Identifier (UBI) number;
- C. If applicable:
 - 1. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW, unless self insured;
 - 2. Have a Washington Employment Security Department number, as required in Title 50 RCW;
 - 3. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
 - 4. Have a Federal Employer Identification number (EIN or Federal Tax ID number)
- D. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).
- E. If bidding on a public works project subject to the apprenticeship utilization requirements in RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the date of the bid solicitation;
- F. Have received training on the requirements related to public works and prevailing wage under this chapter and chapter 39.12 RCW. The bidder must designate a person or persons to be trained on these requirements. The training must be provided by the department of labor and industries or by a training provider whose curriculum is approved by the department. The department, in consultation with the prevailing wage advisory committee, must determine the length of the training. Bidders that have completed three or more public works projects and have had a valid business license in Washington for three or more years are exempt from this subsection. The department of labor and industries must keep records of entities that have satisfied the training requirement or are exempt and make the records available on its web site. Responsible parties may rely on the records made available by the department regarding satisfaction of the training requirement or exemption;
- G. Within the three year period immediately preceding the date of the bid solicitation, not have been determined by a final binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgement entered by a court of limited or general jurisdiction to have willfully violated, as

defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW. This requires the successful bidder, to submit to the municipality prior to award of contract, a signed acknowledged statement in accordance with RCW 9A.72.085 under oath verifying under penalty of perjury that the bidder is in compliance with the responsible bidder criteria requirement set forth under this number.

- H. In accordance with RCW 39.06, a public works contractor must verify responsibility criteria for each first tier subcontractor, and a subcontractor of any tier that hires other subcontractors must verify responsibility criteria for each of its subcontractors. Verification shall include that each subcontractor, at the time of subcontract execution, meets the responsibility criteria and possesses an electrical contractor license if required by RCW 19.28, or an elevator contractor license, if required by RCW 70.87. This verification requirement, as well as the responsibility criteria, must be included in every public works contract and subcontract of every tier.

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SPECIFICATIONS:

Division 1:

Description of the Work: The project removal of existing corrugated metal roofing and installation of new 1.5 inch Polyisocyanurate insulation over existing wood sheathing and 60 mil TPO roofing at Building 85 at Tri Cities Airport Industrial Center. Plans are attached as Drawings G-01 through G-03, A-01 through A-02. General demolition includes, but is not limited to, removal of existing metal roofing, gutter, trims etc. to install all necessary new TPO roofing components. Project specific requirements are listed below:

DIVISION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing contract modifications.

1.02 MINOR CHANGES IN THE WORK

- A. Architect will issue supplemental instructions authorizing minor changes in the work, not involving adjustment to the contract sum or the contract time, on AIA Document G710, "Architect's Supplemental Instructions."

1.03 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a description of proposed changes in the work that may require adjustment to the contract sum or the contract time. Work change proposal requests issued by architect are not instructions either to stop work in progress or to execute the proposed change. Cost shall include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made, applicable taxes, delivery charges, equipment rental, and costs of labor and supervision directly attributable to the change.
- B. Contractor-Initiated Work Change Proposals: If latent or changed conditions require modifications to the contract, contractor may initiate a claim by submitting a request for a change to architect. Include a statement outlining reasons for the change and the effect of the change on the work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the contract sum and the contract time. Cost shall include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made, applicable taxes, delivery charges, equipment rental, and costs of labor and supervision directly attributable to the change.

1.04 CHANGE ORDER PROCEDURES

- A. On owner's approval of a work changes proposal request, architect will issue a change order for signatures of owner and contractor on AIA Document G701.

1.05 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a construction change directive on AIA Document G714. Construction change directive instructs contractor to proceed with a change in the work, for subsequent inclusion in a change order.

- B. Documentation: Maintain detailed records on a time and material basis of work required by the construction change directive. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the contract.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF DIVISION 012600 - CONTRACT MODIFICATION PROCEDURES

DISISION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on project including, but not limited to Requests for Information (RFIS) and project meetings.

1.02 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different sections of the specifications to ensure efficient and orderly installation of each part of the work. Coordinate construction operations, included in different sections, which depend on each other for proper installation, connection, and operation. Schedule construction operations in sequence required to obtain the best results where installation of one part of the work depends on installation of other components, before or after its own installation. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair. Make adequate provisions to accommodate items scheduled for later installation.
- B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the work. Such administrative activities include, but are not limited to, preparation of contractor's construction schedule, delivery and processing of submittals, progress meetings, pre-installation conferences, project closeout activities, and startup and adjustment of systems.

1.03 REQUESTS FOR INFORMATION (RFIS)

- A. General: Immediately on discovery of the need for additional information or interpretation of the contract documents, contractor shall prepare and submit an RFI in the form specified. Architect will return RFIS submitted to architect by other entities controlled by contractor with no response.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the contractor's suggested resolution. If contractor's solution(s) impacts the contract time or the contract sum, contractor shall state impact in the RFI.
- C. RFI forms: AIA Document G716 or approved form, acceptable to architect.

- D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for architect's response for each RFI. The following RFIS will be returned without action: Requests for approval of submittals or substitutions and requests for coordination information already indicated in the contract documents.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIS organized by the RFI number. Include RFI description, date submitted and date architect's response was received. Notify architect within five days if contractor disagrees with response.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF DIVISION 013100 - PROJECT MANAGEMENT AND COORDINATION

DIVISION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the work, consisting of the contractor's construction schedule.

1.02 SUBMITTALS

- A. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.

1.03 COORDINATION

- A. Coordinate contractor's construction schedule with the schedule of values, submittal schedule, progress reports, and payment requests coordinate each construction activity with other activities and schedule them in proper sequence.

PART 2 – PRODUCTS

2.01 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from date established for the notice to proceed to date of substantial completion. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by change order.
- B. Activities: Separate area as a separate numbered activity for each main element of the work. Comply with the following: define activities so no activity is longer than 90 days. Include procurement process activities for long lead items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, submittals, approvals, purchasing, fabrication, and delivery.
- C. Milestones: Include milestones indicated in the contract documents in schedule, including, but not limited to, the notice to proceed, substantial completion, and final completion.

- D. Recovery Schedule: When periodic update indicates the work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which contractor intends to regain compliance with the schedule.

2.02 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

- A. Gantt-chart Schedule: Submit a comprehensive, fully developed, horizontal, Gantt-chart-type, contractor's construction schedule within 7 days prior of date established for commencement of the work. Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. For construction activities that require more than three months to complete, indicate an estimated completion percentage in 10 percent increments within time bar.

PART 3 – EXECUTION

3.01 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Contractor's Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.
- B. Distribution: Distribute copies of approved schedule to architect owner, separate contractors, testing and inspecting agencies, and other parties identified by contractor with a need-to-know schedule responsibility.

END OF DIVISION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

DIVISION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated in the contract documents for specific test and inspection requirements. These services do not relieve contractor of responsibility for compliance with the contract document requirements.

1.02 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to architect for a decision before proceeding.
- B. Minimum quantity or quality levels: the quantity or quality level shown or specified shall be the minimum provided or performed.

1.03 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other sections.
- B. Manufacturer's Field Reports: Prepare written information documenting tests and inspections specified in other sections.
- C. Permits, Licenses, and Certificates: For owner's records, submit copies of permits, licenses, certifications, inspection reports, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the work.
- D. Testing Agency Qualifications: An independent agency with the experience to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual technical sections; and that is acceptable to authorities having jurisdiction.

1.04 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as owner's responsibility, owner will engage a qualified testing agency to perform these services.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to the owner are contractor's responsibility. Perform additional quality-control activities required to verify that the work complies with requirements, whether specified or not.
- C. Manufacturer's Field Services: Where indicated, engage a manufacturer's representative to observe and inspect the work. Manufacturer's representative's services include examination of substrates and conditions, verification of materials, inspection of completed portions of the work, and submittal of written reports.
- D. Re-testing/re-inspecting: Regardless of whether original tests or inspections were contractor's responsibility, provide quality-control services, including retesting and re-inspecting, for construction that replaced work that failed to comply with the contract documents.
- E. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide access to the work, and incidental labor and facilities necessary to facilitate tests and inspections.
- F. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.

PART 2 - PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.01 TEST AND INSPECTION LOG

- A. Test and inspection log: maintain a record at project site.

3.02 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes. Repair and protection are contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF DIVISION 014000 - QUALITY REQUIREMENTS

DIVISION 016000 - PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in project; product delivery, storage, handling; manufacturers' standard warranties; special warranties; and comparable products.

1.02 DEFINITIONS

- A. Products: Items obtained for incorporating into the work, whether purchased for project or taken from previously purchased stock. The term "Product" includes the terms "Material," "Equipment," "System," and terms of similar intent.
 1. Named products: Items identified by manufacturer's product name, make or model number listed in manufacturer's published product literature that is current as of date of the contract documents.
 2. New products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 3. Comparable product: product that is approved through the submittal process to have the indicated qualities related to type, function, dimension, performance, physical properties, appearance, and other characteristics that equal or exceed those of the specified product.
- B. Basis-of-design Product Specification: A specification in which a specific manufacturer's product is named, including make or model number or other designation, to establish the significant qualities related to type, function, dimension, performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.

1.03 SUBMITTALS

- A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include specification section number and title and drawing numbers and titles.
- B. Basis-of-design Product Specification Submittal: Comply with requirements in division 01 section "Submittal Procedures." show compliance with requirements.

1.04 QUALITY ASSURANCE

- A. Compatibility of Options: If contractor is given option of selecting between two or more products for use on project, select product compatible with products previously selected, even if previously selected products were also options.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions. Schedule delivery to minimize long-term storage at project site and to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration. Deliver products to project site in an undamaged condition in manufacturer's original sealed containers, complete with labels and instructions for handling, storing, unpacking, protecting, and installing. Protect stored products from damage and liquids from freezing.

1.06 PRODUCT WARRANTIES

- A. Warranties shall be in addition to, and run concurrent with, other provisions of the contract documents. Manufacturer's disclaimers and limitations on product warranties do not relieve contractor of obligations under requirements of the contract documents.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution from Manufacturers.

PART 2 – PRODUCTS

2.01 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the contract documents, are undamaged and, unless otherwise indicated, are new at time of installation. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 1. Product: Where specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for contractor's convenience will not be considered. Where specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements.
 2. Basis-of-design Product: Where specifications name a product, or refer to a product indicated on drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named.
 3. Visual Selection Specification: Where specifications include the phrase "as selected from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.02 COMPARABLE PRODUCTS & SUBSTITUTIONS

- A. Substitutions will be considered up to 5 calendar days prior to bid opening.

- B. Substitutions may be considered after contract award only when a product becomes unavailable through no fault of the contractor, or when the Owner deems it to be in the Owner's best interest to do so.
- C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- D. A request constitutes a representation that the Bidder/Contractor:
 - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
 - 2. Will provide the same warranty for the Substitution as for the specified product.
 - 3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
 - 4. Waives claims for additional costs or time extension that may subsequently become apparent.
 - 5. Will reimburse Owner for review or redesign services associated with re-approval by authorities.
- E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, if they have not been previously approved.
- F. Substitution Submittal Procedure:
 - 1. All substitution requests shall be accomplished by requesting substitution form from Engineer.
 - 2. Clearly indicate with red arrows on the supporting data the proposed substitution and accessories.
- G. Substitution Review Procedure: Engineer will review substitution requests prior to bid within the 10 days prior to bidding. The substitution request form will be required to be filled out. Only approved substitutions will be listed on addenda. All proposed substitutions not listed on addenda shall be considered by the submitter and the Contractor as non-acceptable substitution and shall not be used. Substitutions after bid submission by Contractor will be reviewed only as per item B above or a better quality item is requested for substitution on approval by Engineer.

PART 3 - EXECUTION (NOT USED)

END OF DIVISION 016000 - PRODUCT REQUIREMENTS

DIVISION 017839 - PROJECT RECORD DOCUMENTS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including record drawings and specifications.

1.02 SUBMITTALS

- A. Record drawings: Submit one complete paper-copy set of marked-up record prints.

PART 2 – PRODUCTS

2.01 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the contract drawings and shop drawings, incorporating new and revised drawings as modifications are issued. Mark record prints to show the actual installation where installation varies from that shown originally. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later. Note construction change directive numbers, alternates, change order numbers, and similar identification, where applicable.

PART 3 – EXECUTION

3.01 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur.
- B. Maintenance of Record Documents: Store record documents apart from the contract documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for architect's reference during normal working hours.

END OF DIVISION 017839 - PROJECT RECORD DOCUMENTS

DIVISION 024119 – SELECTIVE DEMOLITION

PART 1 – GENERAL

1.01 SUMMARY

- A. This section consists of furnishing all labor, materials and equipment necessary and incidental to selective demolition and removal of existing metal roofing and miscellaneous trims, gutter items. All associated roof sheathing, is included in the work described in this section.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings, but more specifically the following sections:
 1. Division 07, Thermoplastic Polyolefin Roofing
 2. Division 07, Sheet Metal Flashing and Trim

1.03 FIELD CONDITIONS

- A. Tenants will occupy the building and buildings immediately adjacent to selective demolition area. Conduct selective demolition so Tenant operations will be disrupted to the least extent.

- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify the Port. Hazardous materials will be removed by the Port under a separate contract.
- D. Utility Service: Maintain existing utilities and protect them against damage during selective demolition operations.

PART 2 – PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify utility locations before starting selective demolition operations.
- B. Review record documents of existing construction provided by the Port. Port does not guarantee that existing conditions are same as those indicated in record documents.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

3.02 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, tenants, and other adjacent occupied and used facilities.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of buildings.

3.03 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.

2. Protect existing work that is to remain in place, that is to be reused, or that is to remain the property of the Owner by temporary covers, shoring, bracing, and supports. Repair items damaged during performance of the work or replace with new. Do not overload structural elements. Provide new supports or reinforcement for existing construction weakened by demolition or removal work.
3. Provide safeguards, including warning signs, barricades, temporary fences, warning lights and other similar items that are required for protection of all personnel during demolition and removal operations. Unless otherwise determined, all areas of the existing roof shall be considered an area of fall potential. At a minimum, the requirements of WAC 296-155 shall be used to protect personnel.
4. Verify and insure that key structural elements are left undisturbed and notify the Engineer of any discrepancies that may occur between existing conditions and the construction drawings. Work done without approval of the Owner is the responsibility of the Contractor.
5. Protect building interior and all materials and equipment from the weather at all times. Where removal of existing roofing or wall surfaces is necessary to accomplish work, have materials and workmen ready to provide adequate and approved temporary covering of exposed areas. Temporary covering shall be provided, as necessary, to insure effectiveness and prevent displacement. Clean interior structure, floors and equipment of any roofing debris that falls through existing sheathing.
6. This building shall remain fully operational by the tenant. The construction work shall not interfere with the tenants operation within the interior of the building without prior arrangements made with the tenant. When falling roof material may occur, special protection shall be required, to protect occupants, from falling debris. Special protection shall consist of construction cones and warning tape below area(s) that are underneath demolition areas to warn occupants of the overhead hazard.
7. Dispose of demolished items and materials promptly.

3.04 PERFORMANCE

- A. Remove existing metal roofing, flashings and underlayment indicated to the extent required for installation of new roofing systems.
- B. Contractor shall notify Owner if any damaged roof sheathing is encountered during demolition from dry rot or water damage.
- C. The Contractor shall keep the remainder of the site clean at all times during the construction process. Upon removal of existing roofing and damaged sheathing, the Contractor shall clean the site from all loose waste material.

3.05 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Remove demolished materials from Project site and legally dispose.
 1. Do not allow demolished materials to accumulate on-site.
 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

END OF DIVISION 024119 – SELECTIVE DEMOLITION

DIVISION 061000 – ROUGH CARPENTRY

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Rough Carpentry.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings, but more specifically the following sections:
 - 1. Division 07, Thermoplastic Polyolefin Roofing
 - 2. Division 07, Sheet Metal Flashing and Trim

1.03 REFERENCES

- A. All references shall be the latest adopted edition unless noted otherwise.
- B. ASTM C 79 – Standard Specification for Gypsum Sheathing Board.
- C. AWPA U2 – Lumber, Timbers, Bridge Ties and Mine Ties—Preservative Treatment by Pressure Processes; American Wood – Preservers' Association.
- D. PS 20 – American Softwood Lumber Standard.
- E. IBC – International Building Code, 2016 Edition.
- F. ICC – International Code Council.
- G. WCLB (GR)- Standard Grading and Dressing Rules No. 17; West Coast Lumber Inspection Bureau.
- H. WWPA G-5 – Western Lumber Grading Rules; Western Wood Products Association.

1.04 QUALITY ASSURANCE

- A. Lumber: Comply with PS 20 and approved grading rules and inspection agencies.
 - 1. Acceptable Lumber Inspection Agencies: WCLB and WWPA.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Cover wood products to protect against moisture and growth of mold/mildew. Support stacked products to prevent deformation and to allow air circulation.

PART 2 – PRODUCTS

2.01 DIMENSION LUMBER

- A. Species: As specified in the General Notes on the drawings and these specifications.
- B. Grade: As specified in the General Notes on the drawings and these specifications.
- C. Sizes: Nominal sizes as indicated on drawings, S4S.
- D. Moisture Content: Maximum 19 percent, stack or kiln-dried.
- E. Backing: 2 x 6 and larger solid lumber, cut from No. 2 Douglas Fir/Larch dimension lumber that is free of large knots, splits or other defects that would reduce the strength of the backing piece.
- F. Wood Nailers and Insulation Stops For Roofing: Preservative pressure treated wood No. 2 Hem/Fir or Douglas Fir/Larch.

2.02 CONSTRUCTION PANELS

- A. APA Rated Roof Sheathing: As specified in the General Notes on the drawings and these specifications.

2.03 ACCESSORIES

- A. Fasteners, Anchors and Anchorbolts: As specified in the General Notes on the drawings and these specifications.
 - 1. Fasteners on Building Exterior, in High Humidity or in Preservative Pressure Treated Wood: Stainless steel or hot-dipped galvanized.
 - a) Use only stainless steel fasteners in wood treated with ACZA preservative treatment.
 - 2. Anchor For Concrete and Masonry: As specified in the General Notes on the drawings and these specifications and the following:
 - a) Concealed Location: Zinc plated steel, expansion type fasteners manufactured by Rawl or Hilti.
 - b) Exposed Location: Hot-dipped galvanized or stainless steel.
 - c) Preservative Pressure Treated Wood: Hot-dipped galvanized or stainless steel.
 - 1) Use only stainless steel anchors in wood treated with ACZA preservative treatment.
- B. Die-Stamped Framing Connectors: As specified in the General Notes on the drawings and these specifications; hot dipped galvanized steel, ICC approved, Simpson *StrongTie* or similar.
- C. Construction Adhesive: APA AFG-01, Waterproof, solvent base, air cure type, cartridge dispensed.
- D. Building Paper: 30 lb asphalt saturated felt.
- E. Sheet Metal Flashing: Specified in Section 076200 – Sheet Metal Flashing And Trim.

PART 3 – EXECUTION

3.01 COORDINATION

- A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.
- B. Coordinate the layout of wall, column framing to accommodate the location of penetrations, recessed items and to minimize cutting framing members and/or framing openings in these assemblies.

3.02 GENERAL

- A. Drilling, Notching and Cutting: Coordinate and control drilling, notching and cutting of all framing members required to admit or install work of other trades, do not violate the structural integrity of any wood framed members, comply with restrictions and requirements of Structural Engineer, IBC and local Building Official.
- B. Nailing: Nailing shall conform to the size and spacing shown on the drawings; where nailing is not indicated, provide nailing per IBC Table 2304.9.1. Fastener Schedule.
- C. Wood In Contact With Concrete & Masonry shall be preservative pressure treated.
 - 1. At ends of beams, behind engineered wood ledgers or at similar situations, separate wood from concrete or masonry with building paper.

3.03 FRAMING INSTALLATION

- A. Cut and fit framing members accurately, set members level, plumb, and true to line. Discard crooked or twisted pieces or with defects that would lower required strength or result in unacceptable appearance of exposed member.
- B. Wall Plates: Comply with size(s) shown on drawings.
 - 1. Bottom plates bearing on concrete shall be preservative pressure treated.
 - 2. Bore holes of proper diameter for anchor bolts accurately; oversized or elongated holes are not acceptable.
- C. Wall Framing: Cull out crooked, twisted or inconsistent width framing, align framing members so that finish walls are straight and free of waviness.
- D. Make provisions for temporary construction loads, and provide temporary bracing sufficient to maintain structure in true alignment and safe condition until completion of erection and installation of permanent bracing.
- E. Install structural member's full length without splices.
- F. Comply with member sizes, spacing, and configurations indicated, and fastener size and spacing indicated on Drawings and General Notes, but not less than required by applicable codes.
- G. Install horizontal spanning members with crown edge up and not less than 1-1/2 inches of bearing at each end.
- H. Provide framing members at all vertical ends/edges of GWB and wall sheathing and at ends of floor sheathing.

- I. Construct headers at floor, roof and wall openings required by the design and work of other trades. Where not shown, provide double joist headers; use metal joist hangers unless otherwise detailed.
- J. Frame wall openings required by the design and for work of other trades. Where not shown, provide minimum two or more studs at each jamb; support heaters on cripple studs.
- K. Provide blocking between framing members wherever required by Drawings, IBC, Building Official, or good construction practice.
- L. Provide additional framing members and/or modifications required to accommodate work of other trades.
- M. Provide backing and miscellaneous members as indicated or as required to support work provided by other trades (finishes, fixtures, specialty items, trim, etc.).

3.04 INSTALLATION OF CONSTRUCTION PANELS

- A. Roof Sheathing: Orient sheathing panels with long dimension perpendicular to roof framing members and end over firm bearing, stagger end joints between adjacent panels, securely nail as noted on drawings or, where not noted, per code.
 1. Use only full sized panels, cut to fit; do not use cutoff ends pieced together where full size panel will fit.
 2. Edge/End Gap: Install sheathing panels with gap between sheets as recommended by APA.

3.05 SITE APPLIED WOOD TREATMENT

- A. Apply preservative treatment compatible with factory-applied treatment at site-sawn cuts, complying with manufacturer's instructions.
- B. Allow preservative to dry prior to erecting members.

3.06 DRILLING, CUTTING AND NOTCHING

- A. Do not drill, cut, notch or alter any structural framing, except as noted on the Drawings and in this specification, without the approval of Engineer and/or code requirements.

3.07 WORKMANSHIP

- A. Carpentry work shall be accomplished using the best workmanship, including the following:
 1. Crooked, bowed, twisted or damaged lumber culled out and used for blocking/backing.
 2. End cuts at proper angle and length for tight fit.
 3. Nailed connections free of splitting or damage.
 4. Framing aligned plumb and square.
 5. Framing conforming to specified tolerances.
 6. Bolt/anchor holes not oversized or misaligned.
 7. Panel ends aligned at center of supporting framing member.
 8. Panel ends and edges properly gapped.
 9. Consistent nail spacing on panels.
- B. Any part of the carpentry work installed with improper or poor workmanship shall be removed and replaced at Contractor's expense.

3.08 TOLERANCES

- A. Framing Members: 1/4 inch from true position, maximum, provided other tolerances are met.
- B. Wall Plane (Flatness): Maximum of 1/4" in 10'-0" out of plane (this equates to no more than 1/8" gap at each end of a 10'-0" long straightedge center on high spot in wall, or no more than 1/8" gap at center of a 10'-0" long straightedge centered on low spot in wall).
- C. Variation from Plane (Other than Walls): 1/8 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

Note: Provide 100 sf unit price for installation and repair of existing tongue and groove roof sheathing that may be damaged and that would need replacing prior to installation of new roofing system.

END OF DIVISION 061000 – ROUGH CARPENTRY

DIVISION 075423 – THERMOPLASTIC POLYOLEFIN ROOFING

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. This section includes:
 - 1. Mechanically fastened thermoplastic polyolefin (TPO) roofing system.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings, but more specifically the following sections:
 - 1. Division 06, Rough Carpentry
 - 2. Division 07, Sheet Metal Flashing and Trim

1.03 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D 1079 and glossary in NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.

1.04 PREINSTALLATION MEETING

- A. Pre-installation Roofing Conference: Conduct conference at Project site with Owners representative and tenant.

1.05 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.06 INFORMATIONAL SUBMITTALS

- A. Research/Evaluation Reports: For components of roofing system, from ICC-ES.
- B. Sample Warranties: For manufacturer's special warranties.

1.07 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing system to include in maintenance manuals.

1.08 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.
- B. Final Inspection: Manufacturer's representative shall provide a comprehensive final inspection after completion of the roof system. All application errors must be addressed and final punch list completed.

1.09 WARRANTY

- A. Special Roofing Manufacturer's Warranty: Manufacturer agrees to repair or replace components of roofing system, without monetary limitation, that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 20 years No Dollar Limit (NDL) from date of Substantial Completion.
 - 2. Wind Speed: A minimum peak wind speed of 72 miles per hour shall be the basis of the warrantee exclusions or "Hurricane" winds per the Beaufort scale.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Carlisle SynTec Incorporated
 - 2. Firestone Building Products
 - 3. GAF Materials Corporation
 - 4. Johns Manville
- B. Source Limitations: Obtain components including fasteners, and cover board for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

2.02 REGULATORY REQUIREMENTS

- A. All work shall be performed in a safe, professional manner, conforming to all federal, state and local codes.

2.03 PERFORMANCE REQUIREMENTS

- A. Provide an installed roofing membrane and base flashing system that does not permit the passage of water, and will withstand the design pressure calculated in accordance with the most current revision of ASCE 7.
- B. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.

- C. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.
- D. Roofing System Design: Tested by a qualified testing agency to resist the following uplift pressures:
 - 1. Corner Uplift Pressure: 93
 - 2. Perimeter Uplift Pressure: 62
 - 3. Field-of-Roof Uplift Pressure: 37
 - 4. "a" Distance: 6 ft.
- E. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class C; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

2.04 TPO ROOFING

- A. Fabric-Reinforced TPO Sheet: ASTM D 6878, internally fabric-reinforced or scrim-reinforced, uniform, flexible TPO sheet.
 - 1. Thickness: 60 mils, nominal
 - 2. Exposed Face Color: White.

2.05 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.
 - 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
- B. Sheet Flashing: Manufacturer's standard unreinforced TPO sheet flashing, 55 mils thick, minimum, of same color as TPO sheet.
- C. Bonding Adhesive: Manufacturer's standard.
- D. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening roofing to substrate, and acceptable to roofing system manufacturer.
- E. Miscellaneous Accessories: Provide metal termination bars, metal battens, pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

2.06 COVER BOARD

- A. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/4 inch thick.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Georgia-Pacific Corporation; Dens Deck.
 - b. USG Corporation; Securock Glass Mat Roof Board.

2.07 VAPOR RETARDER

- A. Vapor Retarder: Polyethylene film, ASTM D 4397, 6 mils thick, minimum, with maximum permeance rating of 0.13 perm.
 - 1. Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.
 - 2. Adhesive: Manufacturer's standard lap adhesive, approved for vapor-retarder application.

2.08 ROOF INSULATION

- A. General: Preformed roof insulation boards manufactured and/or approved by TPO membrane roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thickness indicated. Proposed "or equal" substitutions of products must be pre-approved in writing prior to bidding.
 - 1. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV, 1.6-lb/cu. ft. minimum density, square edged.
 - a. Dow Chemical, Styrofoam Deck Mate Plus or pre-approved equal prior to bid.
 - 2. Expanded-Polystyrene Board Insulation: ASTM C 578, Type II, 1.35-lb/cu. ft. Type VIII, 1.15-lb/cu. ft. or Type IX, 1.8-lb/cu. ft. minimum density.
 - a. Premier Industries, Insufoam II
 - b. InsulFoam LLC, InsulFoam VIII
 - 3. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, felt or glass-fiber mat facer on both major surfaces.
 - a. John Manville, E'NRG'Y 2 or pre-approved equal prior to bidding.
 - 4. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where required for sloping to drains or away from roof penetrations.

2.09 INSULATION ACCESSORIES

- A. General: Furnish roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with membrane roofing.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.

2.10 TPO COATED SHEET METAL

- A. TPO Coated Sheet Metal: Factory-formed 20 mil TPO coated 24 gauge galvanized sheet metal. TPO coated sheet metal shall be acceptable to membrane roofing manufacturer.

2.11 WALKWAYS

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip resisting, surface-textured walkway pads or rolls, approximately 3/16 inch thick and acceptable to roofing system manufacturer.

PART 3 – EXECUTION

3.01 ROOFING INSTALLATION GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions.
- B. Verify that the surfaces and site conditions are ready to receive work.
- C. Verify that the deck surfaces are dry and free of ice or snow.
- D. Verify that all roof penetrations through the roof are solidly set, and that all flashings are tapered.
- E. Start the application of membrane plies at the low point of the roof or at the drains, so that the flow of water is over or parallel to, but never against the laps.
- F. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.
- G. Install roofing and auxiliary materials to tie in to existing roofing to maintain weathertightness of transition and to not void warranty for existing roofing system.
- H. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Loosely butt cover boards together and fasten to roof deck.
 - 1. Fasten cover boards to resist uplift pressure at corners, perimeter, and field of roof.

3.02 AIR/VAPOR BARRIER

- A. General: Air/vapor barrier sheet shall typically be installed when required by design professional to address internal air pressure or humidity conditions.
- B. Overlap air/vapor barrier sheets a minimum of 6" for side and end laps. Tape laps together with manufacturer's required tape.
- C. Seal perimeter and penetration areas with foam sealant.
- D. Insulation must be installed over the air/vapor barrier sheet and mechanically attached to the deck.

3.03 MECHANICALLY FASTENED ROOFING INSTALLATION

- A. Mechanically fasten roofing over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing and allow it to relax before retaining.
- B. Accurately align roofing, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- C. Mechanically fasten or adhere roofing securely at terminations, penetrations, and perimeter of roofing.

- D. Apply roofing with side laps shingled with slope of roof deck where possible. Start the application of membrane plies at the low point of the roof or at the drains, so that the flow of water is over or parallel to, but never against the laps.
- E. In-Seam Attachment: Secure one edge of TPO sheet using fastening plates or metal battens centered within seam, and mechanically fasten TPO sheet to roof deck.
- F. Seams: Clean seam areas, overlap roofing, and hot-air weld side and end laps of roofing and sheet flashings according to manufacturer's written instructions to ensure a watertight seam installation.
 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet.
 2. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.
- G. All exposed sheet corners shall be rounded a minimum of 1".
- H. Use full width rolls in the field of roof and perimeter of the roof.
- I. Spread sealant bed over deck-drain flange at roof drains, and securely seal roofing in place with clamping ring.

3.04 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam are of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.05 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway products at all roof access locations and other designated locations including roof-mounted equipment work locations and in locations indicated. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.06 PROTECTION AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.

- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

3.07 FIELD QUALITY CONTROL

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.
- B. Repair or remove and replace components of membrane roofing system where inspections indicate that they do not comply with specified requirements.

END OF DIVISION 075423 – THERMOPLASTIC POLYOLEFIN ROOFING

DIVISION 076200 – SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section Includes:
 - 1. Manufactured reglets with counterflashing.
 - 2. Formed low-slope roof sheet metal fabrications.

1.02 RELATED WORK

- A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings, but more specifically the following sections:
 - 1. Division 07, Thermoplastic Polyolefin Roofing
 - 2. Division 07, Joint Sealers

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For sheet metal flashing and trim
 - 1. Include plans, elevations, sections, and attachment details.
 - 2. Include identification of finish for each item.

1.03 INFORMATION SUBMITTALS

- A. Product certificates.
- B. Product test reports.

1.04 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.05 QUALITY ASSURANCE

- A. Fabricator Qualifications: Employ skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.
 - 1. For roof edge flashings that are SPRI ES-1 tested, shop shall be listed as able to fabricate required details as tested and approved.

PART 2 – PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. General: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.
- B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
- C. SPRI Wind Design Standard: Manufacture and install roof edge flashings tested according to SPRI ES-1 and capable of resisting the following design pressure:
 - 1. Design Pressure: As indicated on Specification Section 075423- Thermoplastic Polyolefin (TPO) Roofing.
- D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes:
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.02 SHEET METALS

- A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.
- B. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304, dead soft, fully annealed; 2D (dull, cold rolled) finish.
- C. TPO Coated Steel Sheet: Factory-formed non-reinforced thermoplastic polyolefin membrane factory laminated to ASTM A 653, G90 hot-dipped galvanized steel.
 - 1. TPO coated steel sheet shall be acceptable to membrane roofing manufacturer.
 - 2. Color: White

2.03 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.
- B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
 - 1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
 - a. Blind Fasteners: High-strength stainless-steel rivets suitable for metal being fastened.
 - b. Spikes and Ferrules: Same material as gutter, with spike with ferrule matching internal gutter width.
 - 2. Fasteners for Stainless-Steel Sheet: Series 300 stainless steel.
 - 3. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- C. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.

2.04 FABRICATION, GENERAL

- A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
 - 1. Obtain field measurements for accurate fit before shop fabrication.
 - 2. Form sheet metal flashing and trim to fit substrate without excessive oil canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
 - 3. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.
- B. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
 - 1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.
 - 2. Use lapped expansion joints only where indicated on Drawings.
- C. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal to provide for proper installation of elastomeric sealant according to cited sheet metal standard.
- D. Fabricate cleats and attachment devices from same material as necessary being anchored or from compatible, non-corrosive metal.
- E. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard for application, but not less than thickness of metal being secured.
- F. Seams: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use.

2.05 LOW-SLOPE ROOF SHEET METAL FABRICATIONS

- A. Roof Edge Flashing Drip Edge: Fabricate in minimum 96-inch-long, but not exceeding 12-foot-long sections. Furnish with 6-inch-wide, joint cover plates. Shop fabricate exterior corners.
 - 1. Fabricate from the Following Materials:
 - a. TPO Coated Steel Sheet: 0.028 inch thick.

PART 3 – EXECUTION

3.01 INSTALLATION, GENERAL

- A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
 - 1. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.
 - 2. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
 - 3. Install exposed sheet metal flashing and trim with limited oil canning, and free of buckling and tool marks.
 - 4. Torch cutting of sheet metal flashing and trim is not permitted.
- B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
 - 1. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or wood substrates, install underlayment and cover with slip sheet.
- C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at maximum of 10 feet with no joints within 24 inches of corner or intersection.
 - 1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.
 - 2. Use lapped expansion joints only where indicated on Drawings.
- D. Fasteners: Use fastener sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws.
- E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.

3.02 ROOF FLASHING INSTALLATION

- A. General: Install sheet metal flashing and trim to comply with performance requirements and cited sheet metal standard. Provide concealed fasteners where possible, and set units true to line, levels, and slopes. Install work with laps, joints, and seams that are permanently watertight and weather resistant.
- B. Roof Edge Flashing: Anchor to resist uplift and outward forces according to recommendations in cited sheet metal standard unless otherwise indicated. Interlock bottom edge of roof edge flashing with continuous cleat anchored to substrate.

1. Nail roof leg of flashing to nailer at not less than staggered 3-inch centers.

C. Counterflashing: Coordinate installation of counterflashing with installation of base flashing. Insert counterflashing in reglets or receivers and fit tightly to base flashing. Extend counterflashing 4 inches over base flashing. Lap counterflashing joints minimum of 4 inches.

D. Roof-Penetration Flashing: Coordinate installation of roof-penetration flashing with installation of roofing and other items penetrating roof. Seal with elastomeric sealant and clamp flashing to pipes that penetrate roof.

3.03 ROOF CURB

A. Contractor to furnish and install roof curbs for any roof penetrations requiring through roof access that meets TPO roof manufacturer's recommendations to meet the roofing manufacturer's warranty specified. Roof curbs shall meet requirements for equipment size and weight requirements.

3.04 CLEANING AND PROTECTION

A. Clean off excess sealants.

END OF DIVISION 076200 – SHEET METAL FLASHING AND TRIM

DIVISION 079000 – JOINT SEALERS

PART 1 - GENERAL

1.01 SUMMARY

A. This Section Includes:

1. Joint sealers.

1.02 RELATED WORK

A. Coordinate the work of this section with all other sections of the project-specific Specifications and the Contract Drawings, but more specifically the following sections:

1. Division 07, Thermoplastic Polyolefin Roofing
2. Division 07, Sheet Metal Flashing and Trim

1.03 PERFORMANCE REQUIREMENTS

A. Provide elastomeric joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates.

1.04 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.05 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of joint sealant through one source from a single manufacturer and is approved, authorized, or licensed by roofing system manufacturer as an approved product for use with their system.
- B. Preconstruction Field-Adhesion Testing: Before installing elastomeric sealants, field test their adhesion to Project joint substrates as follows:
 - 1. Proceed with installation only if test results are satisfactory and according to manufacturer's specifications.

1.06 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
 - 1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer.
 - 2. When joint substrates are wet.
 - 3. Where joint widths are less or greater than those allowed by joint-sealant manufacturer for applications indicated.
 - 4. Contaminants capable of interfering with adhesion have not yet been removed from joint substrate.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Available Products: Products approved, authorized, or licensed by roofing system manufacturer as an approved product for use with their system.

2.02 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and applications, as demonstrated by sealant manufacturer, based on testing and field experience.

2.03 JOINT-SEALANT BACKING

- A. General: Provide sealant backing of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant and roofing manufacturer based on field experience and laboratory testing.

2.04 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant and roofing system manufacturer where required for adhesion of sealant to joint substrate indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturer's of sealant and roofing system and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.

2.05 JOINT FILLER

- A. General: Provide joint filler of thickness and widths required.
- B. Expansion joint filler shall conform to ASTM D 994.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Surface Cleaning of Joints: Clean joints immediately before installing joint sealants to comply with joint-sealant and roofing system manufacturer's written instructions and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant and roofing system manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 - 2. Clean porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air.
 - 3. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants.
- B. Joint Priming: Prime joint substrates, where recommended by joint-sealant or roofing system manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant and roofing system manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

3.03 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant and roofing system manufacturer's written instructions for products and application indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 - 1. Do not leave gaps between ends of sealant backing.
 - 2. Do not stretch, twist, puncture, or tear sealant backings.
 - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.

- D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- E. Install sealants using proven techniques that comply with the manufacturer's written instructions.
- F. Tooling of Nonsag Sealants: Use tooling techniques in accordance with manufacturer's written instructions.

3.04 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the work progresses by methods and with cleaning material approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.05 PROTECTION

- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installation with repaired areas are indistinguishable from original work.

END OF DIVISION 079000 – JOINT SEALERS

MISCELLANEOUS ITEMS OF WORK

Contractor shall fabricate any required curbs or sheet metal flashings and cover system for existing skylight system for installation of a water tight TPO roofing system.

Tenant has computer equipment stored in building. All necessary precautions for protection of these items is contractor's responsibility. Protect these items with tarps, visqueen or means necessary to protect this equipment from dust and debris that may be generated from construction processes.

Alternate Bid: Contractor shall provide pricing for repair of existing roof sheathing (1" T&G decking) per 100 sf of roof area for removal and replacement of existing roof sheathing that may be damaged by weather.

Division 2:

Permits: Contractor shall be responsible for obtaining all City of Pasco Building Department, Hazardous Materials removal and any state, county or local governmental permits and any costs and fees associated with and applicable to this project for these permits and applications. Contractor shall be responsible for the costs of disposal of all building debris associated with project.

Section 3:

Disposal & Notification: Contractor shall be responsible for the disposal of all debris in a legal manner according to all applicable laws, codes and regulations. Notification of proper authorities for hazardous materials removal if required shall be the responsibility of the contractor. All fees associated with disposal of hazardous materials and general construction debris shall be included in Contractors scope of work.

Division 4:

Security: Contractor shall erect temporary construction fencing as determined by contractor to extent they determine necessary to secure the site during construction and maintain public safety. Contractor will be allowed to store materials onsite in designated area. Materials shall be stored in a secure manner to protect nearby buildings from any wind-blown materials that could occur if stored improperly.

Division 5:

Health and Safety: The Contractor's attention is alerted to the strict enforcement and requirements of the "Occupational Safety and Health Act" (OSHA) and "The Washington Industrial Safety and Health Act of 1973" (WISHA), which apply to all operations within this contract. The Contractor shall comply with all provisions thereof and make such reports and maintain such records as the acts require. The Contractor shall prepare a project-specific health and safety plan in full compliance with OSHA and WISHA requirements. The Contractor shall be solely and completely responsible for conditions of the job site including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

Division 6:

Plans: The plans are for reference only. Dimensions are estimated and location details are general in nature.

Division 7:

Cleanup: Contractor shall leave the job site clean on a daily basis.

Signature

Date

Print Name

(Contractor License Number)

Title: _____
If Corporation please affix Corporate Seal.

(Contractor UBI Number)

(Federal Employer ID Number)

CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUS



Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (February 11, 2020), the bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Bidder's Business Name

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

Sole Proprietorship Partnership Joint Venture Corporation

State of Incorporation, or if not a corporation, State where business entity was formed:

If a co-partnership, give firm name under which business is transacted:

**** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.***

Port of Pasco
BIDDERS'S CHECKLIST

The bidder's attention is especially called to the following forms which must be completed in full as required and submitted collectively as the bid proposal package:

- ___ 1. Proposal Form- The unit prices must be shown in the space provided. Show all unit prices in both words and figures when indicated.
- ___ 2. Bid Bond- Surety bond or Cashier's Check. The amount of the bid bond shall not be less than five percent (5%) of the total amount of the bid.
- ___ 3. Addenda- All Addenda shall be signed and included in sealed bid.
- ___ 4. Certification of Compliance with Wage Payment Status. Certification of Compliance with Wage Payment Status form shall be completed, signed and included in sealed bid.
- ___ 5. Sealed Envelope- Proposals shall be prepared on the standard proposal form attached. The proposal shall be placed in a sealed envelope marked in the lower left corner with "Proposal for *Job Name*". Please place name of company on front of envelope as well. See bidder instructions for further information.

The following forms shall be executed and submitted within ten (10) calendar days after Notice of Award.

- ___ 1. Contract- To be executed by the successful bidder.
- ___ 2. Payment and Performance Bonds- Separate performance and payment bonds shall be completed on Standard AIA bond forms by Contractor's Surety and submitted with Contractor executed Contracts.
- ___ 3. Certificate of Insurance- Contractor shall furnish Certificate of Insurance and all applicable Endorsements naming the Port of Pasco as additional insured on its Commercial General Liability and Automobile Liability Policies per General Instructions under Insurance in bid specifications Instructions to Bidders.
- ___ 4. Construction Schedule- To be submitted by Contractor prior to scheduled Pre-Construction meeting.
- ___ 5. Schedule of Values- To be submitted by Contractor with executed Contract.
- ___ 6. List of Subcontractors- To be submitted by Contractor with executed Contract.
- ___ 7. Contractor's W-9- To be submitted by Contractor with executed Contract.

The following shall be filed prior to Notice to Proceed.

- ___ 1. Statement of Intent to Pay Prevailing Wages- To be filed immediately by the Prime Contractor after Contract is awarded and before work begins and subsequently by all those providing labor on the project.

AGREEMENT

Agreement between Port of Pasco and Contractor

Small Works Contract

THIS AGREEMENT is made on the ____ day of ____, 2020 between the Port of Pasco (hereinafter “the Port”) and the contractor, XYZ, (hereinafter “the Contractor”), who in consideration of the mutual promises contained herein, agree as follows:

ARTICLE 1: The Work

1.1 The Contractor shall perform all the work required by the contract documents identified in Article 5 and by this reference incorporated herein, for the project entitled Tri Cities Airport Building 85 Re-roof.

ARTICLE 2: Time of Commencement and Completion

2.1 The work to be performed under this contract shall commence not later than Notice to Proceed date and shall be completed not later than 30 calendar days following the date of commencement (hereinafter the “completion date”).

ARTICLE 3: Contract Sum

3.1 The Port will pay the Contractor, for the satisfactory performance of the work, a contract sum of _____ Dollars (\$_____), which includes applicable Washington State sales tax.

ARTICLE 4: Payment

4.1 Monthly progress payments will be made for invoices submitted by the first Thursday of the month. Invoices should reflect work completed to date and are subject to approval by the Engineer. Materials and equipment not incorporated in the Work, but delivered, suitably stored, and accompanied by documentation satisfactory to the Port will be paid at 75% of cost (with the balance being retainage until fully incorporated into the Work).

4.2 Upon final acceptance of the work by the Port, the Contractor shall submit a final invoice in the amount of 100% of the contract sum, plus 100% of the applicable Washington State sales tax.

4.3 The Port may withhold payment (or a portion thereof) otherwise due the Contractor on account of:

- A. defective work not remedied;
- B. claims filed;
- C. failure of the Contractor to make payment properly to subcontractors or for labor, materials or equipment;
- D. damages to another Contractor; or
- E. unsatisfactory performance of the work by the Contractor.

4.4 The acceptance of the final payment by the Contractor shall constitute a waiver of all claims, of whatever sort or nature, by the Contractor against the Port.

4.5 Unless withheld pursuant to paragraph 4.3, final payment to the Contractor shall be made upon occurrence of the following:

- A. The expiration of 45 days following the final acceptance of the project, and
- B. The receipt by the Port of the department of revenue certificate of payment of state excise taxes if contract is for a sum of \$35,000.00 or more, and
- C. Satisfaction of the Port that the claims of materialmen and laborers incurred in filing and processing such claims have been paid or provided for, and
- D. All requirements of RCW 39.12 relating to Prevailing Wage have been met.

4.6 Retainage of 5% will be withheld until the requirements in Section 4.5 hereinabove and RCW 60.28 are met when contractor elects to furnish a performance and payment bond for the project of \$150,000 or less. If contractor elects not to furnish a performance and payment bond on project of \$150,000 or less, retainage of 10% will be withheld until the requirements in Section 4.5 hereinabove and RCW 60.28 are met.

ARTICLE 5: The Contract Documents

5.1 The contract documents, which by this reference are incorporated herein, consist of those documents listed below specifically:

- A. This Agreement.
- B. Invitation for Bids, Addenda, Small Works Roster.
- C. General Conditions
- D. Specifications.

- E. Bid Form submitted by Bidder
- F. Drawings.
- G. Prevailing Wages Schedule.

5.2 The contract documents set forth above form the entire and integrated agreement between the Parties hereto, and supersede all prior negotiations, representation, or agreements, either written or oral. The contract may be amended or modified only by a written amendment to the contract signed by both parties or by a change order.

5.3 By his execution of the contract, the Contractor represents that he has visited the site of the work and familiarized himself with all conditions under which the work is to be performed.

5.4 The Contractor shall comply with all applicable Federal/State laws, City/County ordinances, and rules and regulations of all authorities having jurisdiction of project construction. Said laws will be deemed to be included the same as though written out in full.

ARTICLE 6: Owner

6.1 The Port of Pasco, as owner, shall issue all instructions to the Contractor through an authorized representative. The Port shall at all times have access to the work wherever it is in preparation or progress.

ARTICLE 7: Contractor

7.1 The Contractor shall be solely responsible for all construction means, methods, techniques, sequences and procedures, and for performing, scheduling and coordinating all portions of the work under the contract in a proper fashion and in strict compliance with all applicable codes, rules, regulations and laws.

7.2 Contractor shall carry on the Work in a safe manner, and shall comply with all applicable federal, state and local laws, regulations, standards, and recognized trade practices for the protection and safety of its employees and other persons about its Work, including without limitation those governing labor, safety, health, sanitation, and protection of the environment.

7.3 Contractor is solely responsible for protection and safety of its employees, for final selection of safety methods and means, and for

establishing, supervising, inspecting and enforcing its safety obligations in accord with this Agreement and applicable law.

7.4 Contractor shall defend, indemnify and hold the Port, its officers, officials, employees, engineer and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or resulting from the acts, errors or omissions of the Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them in performance of this Agreement, except for injuries and damages caused by the sole negligence of the Port. Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them and the Port, its officers, officials, employees, engineer and volunteers, the Contractor's liability, including the duty and cost to defend, hereunder shall be only to the extent of the Contractor's negligence, or of any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them. It is further specifically and expressly understood that the indemnification provided herein constitutes the Contractor's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration or termination of this Agreement.

7.5 Unless otherwise specifically noted, the Contractor shall provide and pay for all labor and materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.

7.6 The Contractor shall pay prevailing wages, all sales, consumer, use, and other similar taxes required by law, and shall secure and pay for all permits, fees, and licenses necessary for execution of the work.

7.7 The Contractor will warrant to the Port that all materials and equipment furnished under the contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the specifications. All work not so conforming to these standards may be considered defective. If required by the Port, the Contractor shall furnish satisfactory evidence as to the kind and

quality of materials and equipment. This warranty shall be in addition to and not in limitation of any other warranty or remedy afforded by law.

7.8 RCW 39.06.020 requires a public works contractor to verify responsibility criteria for each first tier subcontractor, and a subcontractor of any tier that hires other subcontractors must verify responsibility criteria for each of its subcontractors. Verification is to include that, at the time of subcontract execution, each subcontractor meets the responsibility criteria listed above and in RCW 39.04.350(1) and additionally – if applicable – possesses an electrical contractor license or an elevator contractor license.

ARTICLE 8: Separate Contracts

8.1 The Port reserves the right to award other contracts in connection with other portions of the project.

ARTICLE 9: Time

9.1 All time limits stated in the contract documents are of the essence of the contract.

ARTICLE 10: Independent Contractor

10.1 Contractor represents, warrants and understands that it is an independent contractor and employing unit, duly licensed to perform the Work (including without limitation state contractor registration), subject to all applicable Social Security, Unemployment Compensation and Workers' Compensation statutes, and shall keep records and make reports and payments of all taxes or contributions required. Contractor agrees to indemnify, defend and hold Port harmless from any expenses or liability incurred under such statutes in connection with employees of Contractor.

10.2 If any Work hereunder is performed by principals of Contractor who are not covered by Workers' Compensation, the principals agree that they shall have no claim against Port or its insurers or its Workers' Compensation coverage in the event they are injured while performing such Work.

ARTICLE 11: Miscellaneous Provisions

11.1 This agreement is executed on the day first above written.

11.2 In the event of any dispute between Port and Contractor arising out of or relating to this Agreement, the prevailing party shall be entitled, whether or not a suit, action, or arbitration proceeding is instituted, to recover all costs incurred in connection with the dispute, including without limitation reasonable attorneys' and expert witness fees, whether at trial, on appeal or denial of any petition for review, or in connection with enforcement of any judgment.

11.3 This Agreement shall be interpreted in accordance with the laws and court rules of the State of Washington in effect on the date of execution of this Agreement. In the event any party deems it necessary to institute legal action or proceedings to ensure any right or obligation under this Agreement, the parties agree that such action shall be brought in a court of competent jurisdiction situated in Franklin County, Washington.

11.4 The Defend Trade Secrets Act provides that an individual may not be held criminally or civilly liable under any federal or state trade secret law for disclosure of a trade secret: (1) made in confidence to a government official, either directly or indirectly, or to an attorney, solely for the purpose of reporting or investigating a suspected violation of law; and/or (2) in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. Additionally, an individual suing an employer for retaliation based on the reporting of a suspected violation of law may disclose a trade secret to his or her attorney and use the trade secret information in the court proceeding, so long as any document containing the trade secret is filed under seal and the individual does not disclose the trade secret except pursuant to court order.

PORT OF PASCO:

CONTRACTOR: XYZ

By: _____
Title: _____

By: _____
Title: _____

By: _____
Title: _____

By: _____
Title: _____

Washington State Contractors License No.:

PREVAILING WAGES

DRAWINGS

TRI CITIES AIRPORT BUILDING 85 RE-ROOF

3408 SWALLOW AVE
PASCO, WA

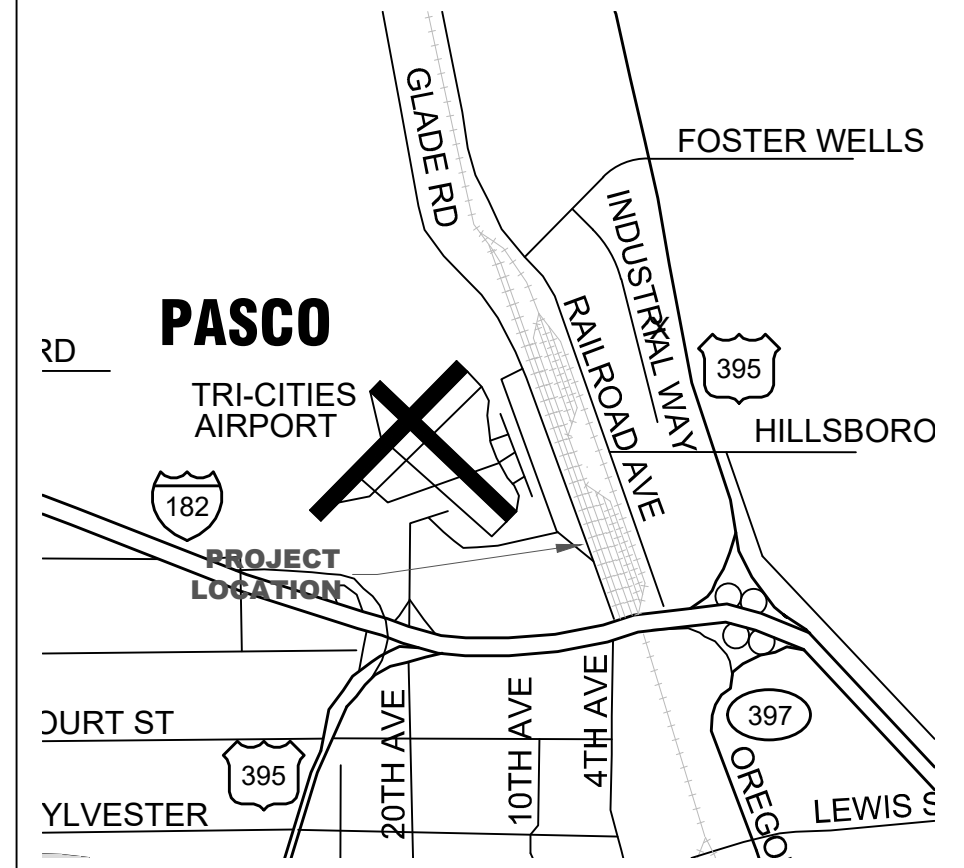
SHEET NO. TITLE

G-01 PROJECT LOCATION & INDEX
G-02 GENERAL NOTES
G-03 LEGEND, ABBREVIATIONS, & GENERAL SYMBOLOGY
PH-01 PHOTOS OF PROJECT

DRAWINGS

A-01 BUILDING 85 ROOF PLAN
A-02 ROOFING DETAILS & PROFILE

SHEET INDEX



NTS

SITE PLAN

PROJECT VICINITY MAP

TRI-CITIES AIRPORT • PSC
3601 N. 20th Avenue
Pasco, WA 99301
P: 509.547.6352
F: 509.547.9040
www.portofpasco.org

TRI CITIES AIRPORT
BUILDING 85 RE-ROOF
PASCO, WA

PROJECT LOCATION AND INDEX

APPROVAL		
DRAWN	TF	1/13/2020
DESIGN		
CHECKED		
APPROVED		

No.	REVISIONS	DATE	DRWN	CHKD	DESIGN	APPD

DWG. No.
G-01
SCALE: NOTED
CADFILE: 20-01 G-01
JOB No. 20-01
REV. 0

FS:\USERS\frfriesz\Documents\All Files\Projects\Projects 2020\20-01 TCA Building 85 Re-roof\20-01 Drawings\20-01 G-01.dwg - Jan 13, 2020 - 1:03:44 pm - Tracy S. Friesz

GENERAL

- CONTRACTORS SHALL VISIT AND FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BRING ANY DISCREPANCIES IN THE DRAWINGS OR SPECIFICATIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING OR UNDERTAKING THE AFFECTED WORK.
- ANY DISCREPANCIES IN THESE DRAWINGS, SPECIFICATIONS, THESE NOTES AND SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING AFTER REVIEWING ANY CHANGES PRIOR TO BIDDING THE WORK. ANY WORK PERFORMED BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCY SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK.
- APPROVALS BY BUILDING OFFICIAL SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM PLANS AND SPECIFICATIONS (CONSTRUCTION DOCUMENTS).
- OMISSIONS IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN. IF FEATURES ARE STILL UNCLEAR, CONTACT ARCHITECT/ENGINEER FOR CLARIFICATION.
- THE CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL THROUGHOUT THE WORK. THE CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK IN THE FIELD IS DONE IN ACCORDANCE WITH ALL CURRENT APPLICABLE NATIONAL, STATE AND LOCAL CODES, ORDINANCES, REQUIREMENTS, ETC. ARE SPECIFICALLY SHOWN ON DRAWINGS AND/OR CALLED FOR IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY CONTINUOUSLY DURING, BUT NOT LIMITED TO, NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ARCHITECT/ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ARCHITECT/ENGINEER. THE OWNER AND ARCHITECT/ENGINEER SHALL BE NAMED AS ADDITIONAL INSURED ON THE CONTRACTORS LIABILITY INSURANCE COVERAGE PER CONTRACT DOCUMENTS.
- ALL MANUFACTURED MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVISIONS OF APPLICABLE (ICBO) RESEARCH RECOMMENDATIONS. WHERE SPECIFIC MANUFACTURED PRODUCTS ARE CALLED FOR, PRODUCTS OF EQUAL QUALITY WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE USED, BUT ONLY IF APPROVED BY ARCHITECT/ENGINEER UNLESS SPECIFICALLY NOTE IN THE CONTRACT.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FINAL DIMENSIONS, QUANTITIES, COORDINATION OF THE WORK OF ALL TRADES, QUALITY CONTROL, AND CONSTRUCTION STANDARDS FOR THIS PROJECT.
- ARCHITECT OR ENGINEER STAMPED DRAWINGS CANNOT BE MODIFIED IN ANY WAY EXCEPT BY THE ARCHITECT OR ENGINEER. PLANS MODIFIED BY OTHERS WILL NOT BE ACCEPTED.
- DIMENSIONS: WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE SHOWN AS NOTED ON DRAWINGS FROM FACE OR CENTERLINE.
- DRAWINGS SHALL NOT BE SCALED TO DETERMINE ANY DIMENSIONS. REFER ONLY TO WRITTEN INFORMATION AND DETAIL DRAWINGS, OR USE FIGURED DIMENSIONS. DIMENSIONAL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION.
- STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTS, SLEEVES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED.
- NO FIELD CHANGES WILL BE PERMITTED WITHOUT DIRECT WRITTEN AUTHORIZATION.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE LICENSED AND BONDED TO DO WORK IN THE PUBLIC RIGHT-OF-WAY AND HAVE A CURRENT CITY OF PASCO BUSINESS LICENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION DEFICIENCIES FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE PORT OF PASCO OR AS SPECIFIED IN THE BID DOCUMENTS..
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL JURISDICTION REQUIREMENTS. CONSTRUCTION SHALL CONFORM TO CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND ALL OTHER CODES AS LOCALLY ADOPTED AND AMENDED.
- IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE DRAWINGS, THE MORE STRINGENT PROVISIONS SHALL GOVERN.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DEVELOPING A SAFETY PLAN TO PROTECT WORKERS AND THE PUBLIC FROM INJURY OR HARM CONFORMING TO ALL LOCAL, STATE AND FEDERAL REQUIREMENTS AND FOR ENFORCING IT ON THE PROJECT SITE.
- IF THERE IS ANY DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT OR HIGHER VALUE ALTERNATIVE WILL TAKE PRECEDENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND MAINTAINING A DUST CONTROL PLAN. DUST CONTROL SHALL BE IN ACCORDANCE WITH ALL LOCAL ORDINANCES AND/OR WITH SECTION 2-07 OF THE STANDARD SPECIFICATIONS. WHEN UTILIZING A DIRECT CONNECTION TO A PUBLIC WATER SOURCE (I.E. FIRE HYDRANT METER, ETC.) NO IRRIGATION LINES OR OTHER IRRIGATION/SPRINKLING TYPE WATERING DEVICES ARE ALLOWED. DUST CONTROL TO BE DONE WITH A PERSON OPERATED WATERING DEVICE (I.E. WATER TRUCK, WATER WAGON, ETC.); AND NOT UNATTENDED WATER ALLOWED. THE CONTRACTOR CAN MAKE ARRANGEMENTS WITH CITY OF PASCO FOR APPLICABLE METERING DEVICES FOR WATER USAGE IF NOT ON PORT PROPERTY.

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS, FEDERAL, STATE AND CITY, RELATING TO THE PERFORMANCE OF THIS WORK.
- NOTIFY PORT OF PASCO MAINTENANCE DEPARTMENT AND OR PROPER UTILITY PRIOR TO INTERRUPTION OF ANY BASE UTILITIES.

MISCELLANEOUS

- THE CONTRACTOR SHALL ONLY USE THOSE HYDRANTS BY THE AGENCY IN CHARGE OF THE WATER DISTRIBUTION AND IN STRICT ACCORDANCE WITH ITS REQUIREMENTS FOR HYDRANT USE. WATER APPLIED BY THE CONTRACTOR SHALL NOT BE FROM RESIDENTIAL SOURCES.

DESIGN CRITERIA

- REFER TO SHEETS A-01 FOR TYPICAL PLAN VIEW.

UTILITIES

- ALL UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION. PRIOR TO ANY EXCAVATION, THE CONTRACTOR IS REQUIRED TO CALL THE UNDERGROUND ALERT CENTER AT 811 AT LEAST 2 BUSINESS DAYS PRIOR TO STARTING SUCH EXCAVATION.
- IT SHALL BE THE CONTRACTOR'S OWN RESPONSIBILITY TO PROTECT, IN PLACE, ALL UTILITIES AND/OR THEIR STRUCTURES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. DAMAGE DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO CURRENT AGENCY STANDARDS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHEN IN THE VICINITY OF ANY UTILITY LINES TO NOTIFY ALL UTILITIES/AGENCIES WHEN CONSTRUCTION WORK BEGINS AND TO ARRANGE FOR A REPRESENTATIVE OF THE UTILITY/AGENCY TO BE PRESENT. THE CONTRACTOR SHALL COORDINATE ITS ACTIVITIES WITH ALL UTILITIES/AGENCIES.

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PASCO, WA

GENERAL NOTES

APPROVAL		
DRAWN	TF	1/13/2020
DESIGN		
CHECKED		
APPROVED		

No.	REVISIONS	DATE	DRWN	CHKD	DESIGN	APPD

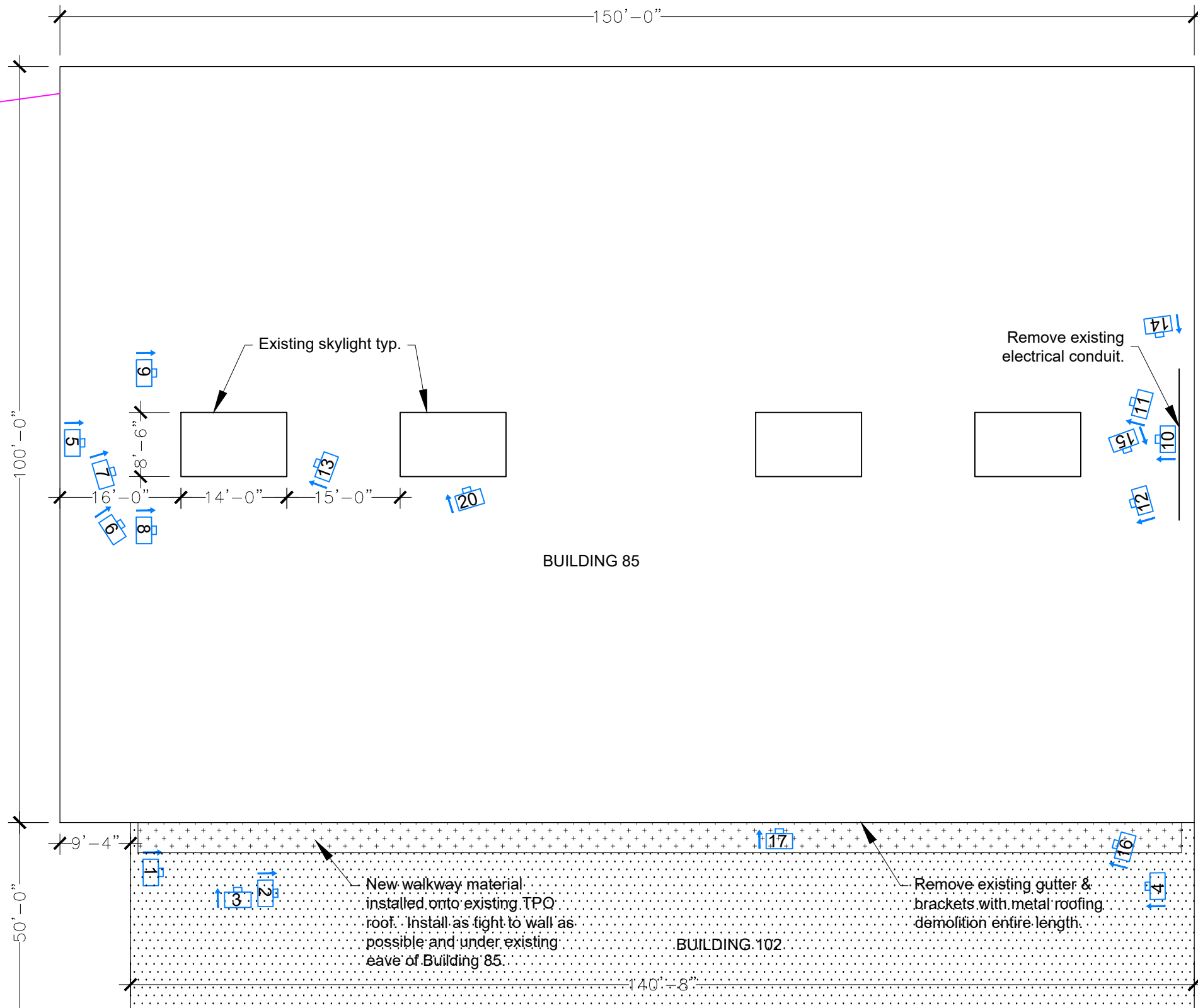
DWG. No.
G-02

SCALE: NOTED

CADFILE: 20-01 G-02

JOB No. 20-01	REV. 0
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1 ROOF PLAN BUILDING 85
 -- 1/16"=1'-0"



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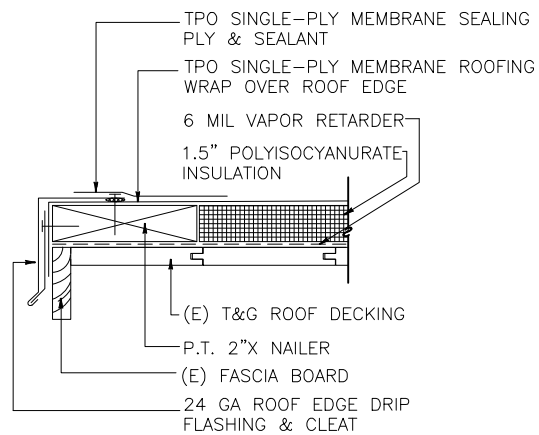
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 PASCO, WA

ROOF PLAN BUILDING 85

APPROVAL		
DRAWN	TF	1/13/2020
DESIGN		
CHECKED		
APPROVED		

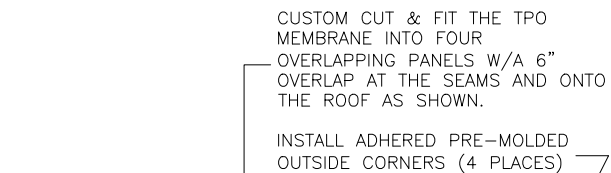
No.	REVISIONS	DATE	DRWN	CHKD	DESIGN	APPD

DWG. No.	
A-01	
SCALE: NOTED	
CADFILE: 20-01 A-01	
JOB No.	REV.
20-01	0



NOTE: PROVIDE ROOF EDGE DETAIL PER SPECIFIC MANUFACTURERS WRITTEN SPECIFICATIONS AND STANDARD DETAILS.

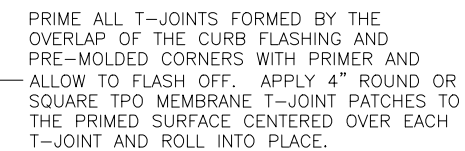
1 TYPICAL ROOF EDGE DETAIL
1-1/2"=1'-0"



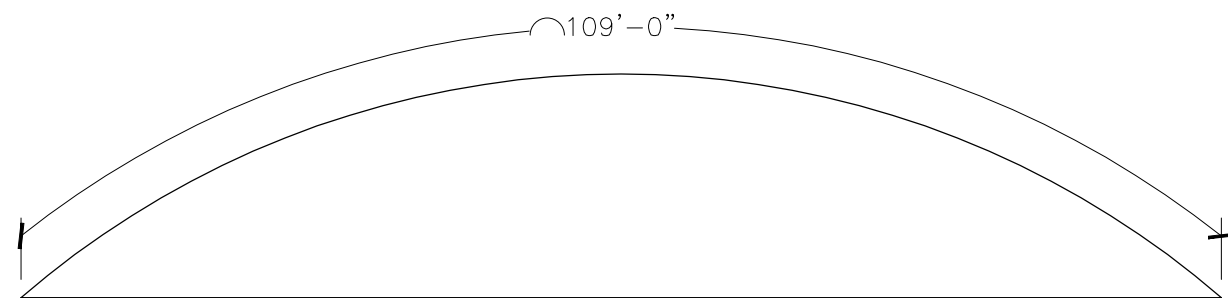
AFTER ALL FOUR TPO SELF ADHERING MEMBRANE PANELS HAVE BEEN WRAPPED AROUND THE CURB, PRIME TOP OF EACH MEMBRANE PANEL WHERE 6" FLAP WILL OVERLAP PANEL.

NOTE: PROVIDE ROOF CURB DETAIL PER SPECIFIC MANUFACTURERS WRITTEN SPECIFICATIONS AND STANDARD DETAILS.

2 TYPICAL ROOF CURB DETAIL
1-1/2"=1'-0"



NOTE: APPLY CUT EDGE SEALANT TO ALL OF THE T-JOINT PATCHES, AT ALL LAPS, JOINTS AND AT ALL CUT EDGES OF THE TPO MEMBRANE.



3 BARREL ROOF PROFILE
1/16"=1'-0"



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ROOF DETAILS AND PROFILE

APPROVAL		
DRAWN	TF	1/13/2020
DESIGN		
CHECKED		
APPROVED		

No.	REVISIONS	DATE	DRWN	CHKD	DESIGN	APPD

DWG. No.	A-02
SCALE:	NOTED
CADFILE:	20-01 A-02
JOB No.	20-01
REV.	0